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WHAT IS CLAIMED IS:

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1. A lighting device for a lamp device, comprising:

a circuit board; and

film capacitors, packaged on the circuit board by using leadless flow solders,

wherein each film capacitor comprises polypropylene films and lead wires, and a material of the lead wires has a thermal conductivity lower than a thermal conductivity of copper, and terminals and internal materials of the film capacitors are leadless.

- 2. The lighting device of claim 1, wherein a diameter of the lead wires is 0.6ϕ (mm) or less.
- 3. The lighting device of claim 1, wherein a cross-sectional area of the film capacitors is 35mm² or less, and a temperature at a terminal end of the lead wires in the film capacitors during a soldering process is 130°C or less.
- 4. The lighting device of claim 1, wherein a length of the lead wires from the circuit board to the film capacitor is 2mm or more after the film capacitors are packaged onto the circuit board.
- 5. The lighting device of claim 1, wherein the film capacitors are constructed by a combination of a polypropylene film and an aluminum foil.
- 6. The lighting device of claim 1, wherein the film capacitors are constructed by an aluminum-deposited polypropylene film.
- 7. The lighting device of claim 1, wherein circuit elements set on the circuit board are all leadless.
 - 8. An illumination apparatus, comprising:
 - a lamp; and
 - a lighting device for lighting the lamp,

wherein the lighting device comprises a circuit board; and film capacitors packaged on the circuit board by using leadless flow solders, wherein each film capacitor comprises polypropylene films and lead wires, and a material of the lead wires has a thermal conductivity lower than a thermal conductivity of copper, and terminals and internal materials of the film capacitors are leadless.

9. The illumination apparatus of claim 8, wherein a diameter of the lead wires is 0.6φ (mm) or less.

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10. The illumination apparatus of claim 8, wherein a cross-sectional area is 35mm²

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or less, and a temperature at a terminal end of the lead wires in the film capacitors during a soldering process is 130°C or less.

- 11. The illumination apparatus of claim 8, wherein a length of the lead wires from the circuit board to the film capacitor is 2mm or more after the film capacitors are packaged onto the circuit board.
- 12. The illumination apparatus of claim 8, wherein the film capacitors are constructed by a combination of a polypropylene film and an aluminum foil, or an aluminum-deposited polypropylene film.
- 13. The illumination apparatus of claim 8, wherein circuit elements set on the circuit board are all leadless.
 - 14. An illumination system, comprising:

lamps; and

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at least one lighting device for lighting the lamps;

wherein the lighting device comprises a circuit board; and film capacitors packaged on the circuit board by using leadless flow solders, wherein each film capacitor comprises polypropylene films and lead wires, and a material of the lead wires has a thermal conductivity lower than a thermal conductivity of copper, and terminals and internal materials of the film capacitors are leadless.

- 15. The illumination system of claim 14, wherein a diameter of the lead wires is 0.6ϕ (mm) or less.
- 16. The illumination system of claim 14, wherein a cross-sectional area is 35mm² or less, and a temperature at a terminal end of the lead wires in the film capacitors during a soldering process is 130°C or less.
- 17. The illumination system of claim 14, wherein a length of the lead wires from the circuit board to the film capacitor is 2mm or more after the film capacitors are packaged onto the circuit board.
- 18. The illumination system of claim 14, wherein the film capacitors are constructed with a combination of a polypropylene film and an aluminum foil, or an aluminum-deposited polypropylene film.
- 19. The illumination apparatus of claim 14, wherein circuit elements set on the circuit board are all leadless.